

FEB/FY06

FORT ALLEN
Puerto Rico

**Army Defense Environmental
Restoration Program
Installation Action Plan**

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Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multi-year Cleanup Program for an installation. The plan will identify environmental cleanup requirements at each site or area of concern, and propose a comprehensive, installation-wide approach, with associated costs and schedules, to conduct investigations, necessary remedial actions, and long term maintenance.

In an effort to coordinate planning information between the restoration manager, US Army Environmental Center (USAEC), Fort Allen, and the National Guard Bureau, an IAP was completed. The IAP is used to track requirements, schedules and tentative budgets for all Army installation cleanup programs.

All site-specific funding and schedule information has been prepared according to projected overall Army funding levels and is, therefore, subject to change.

The following agencies contributed to the formulation and completion of this Installation Action Plan for Fort Allen:

Company/Installation/Branch

EEl for USAEC

ICI, Ilc for USAEC

Puerto Rico Army National Guard (PRARNG)

USAEC

AEDB-R	Army Environmental Database-Restoration
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
COL	Colonel
DERP	Defense Environmental Restoration Program
DoD	Department of Defense
EOD	Explosive Ordnance Demolition
EPA	United States Environmental Protection Agency
ER,A	Environmental Restoration, Army
ERNS	Emergency Response Notification System
FTAL	Fort Allen as designated in AEDB-R
FS	Feasibility Study
FUDS	Formerly Used Defense Sites
FY	Fiscal Year
HRS	Hazard Ranking Score
IAP	Installation Action Plan
IRA	Interim Remedial Action
IRP	Installation Restoration Program
LTM	Long Term Management
MEC	Munitions and Explosives of Concern
MMRP	Military Munitions Response Program
NFRAP	No Further Remedial Action Planned
NGB	National Guard Bureau
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
PA	Preliminary Assessment
PRARNG	Puerto Rico Army National Guard
PREQB	Puerto Rico Environmental Quality Board
RA	Remedial Action
RAC	Risk Assessment Code
RA(C)	Remedial Action (Construction)
RAB	Restoration Advisory Board
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
REM	Removal
RI	Remedial Investigation
ROTHR	Relocatable Over the Horizon Radar
SI	Site Inspection
TAPP	Technical Assistance for Public Participation
TRC	Technical Review Committee
USAEC	United States Army Environmental Center
USACHPPM	United States Army Center for Health Promotion and Preventive Medicine
UXO	Unexploded Ordnance

Installation Locale: Fort Allen is located on the southern coast of Puerto Rico, approximately ten miles west of Ponce, Puerto Rico, and one mile north of the Caribbean Sea. The Juana Diaz community is located approximately four miles from the northern boundary of Fort Allen. Fort Allen property consists of approximately 941 acres and lies entirely in the Juana Diaz Municipio. The approximate geographic coordinates of Fort Allen are 18 00'54" N latitude and 66 30'26' W longitude.

Installation Mission: Fort Allen is federally owned and operated as a Puerto Rico Army National Guard (PRARNG) training annex facility. The primary function of Fort Allen is to provide classroom training facility for the Regional Training Institute.

Environmental Organization

Major Command: National Guard Bureau (NGB)

Installation: Puerto Rico Army National Guard

Lead Executing Agencies: USAEC and US Army Corps of Engineers

Regulatory Participation

Federal: US Environmental Protection Agency (EPA), Region II

State: Puerto Rico Environmental Quality Board

National Priorities List (NPL) Status: Non-NPL

Installation Restoration Advisory Board (RAB)/Technical Review Committee (TRC)/Technical Assistance for Public Participation (TAPP) Status: There is no need for a RAB at this time for Fort Allen.

Installation Program Summaries

IRP

Response Complete Status (Nine sites).

MMRP

Primary Contaminants of Concern: Metals, Explosives, Munitions and Explosives of Concern (MEC)

Affected Media of Concern: Soil

Estimated Date for Response Complete (RC): 2017

Funding to date (up to FY05): \$25,000

Current year funding (FY06): \$130,000

Cost-to-Complete (FY07+): \$1,716,000

Installation Historic Activity

Fort Allen is used only for classroom training because PRARNG conducts all of its field training and major vehicle and equipment maintenance at Camp Santiago, which is located about 30 miles to the east. Fort Allen activities occur in the main cantonment area, and other areas of Fort Allen are rarely used. Several portions of Fort Allen are leased or operated by other parties. Approximately 22 acres of Fort Allen contains the Fort Allen US Army Reserve Center. About 40 acres are leased by the Commonwealth of Puerto Rico for the operation of a minimum security prison. The Secretary of the Army granted to the Department of the Navy, a permit for the construction, operation and maintenance of a Relocatable Over the Horizon Radar (ROTHR) System over approximately 117 acres at Fort Allen. The portions not under National Guard operational control, such as the US Army Reserve Center, and the minimum security prison are not within the scope of this investigation.

Several operational facilities that may be potential contaminant source areas were located on Losey Field (Fort Allen), and have long since been abandoned or demolished. These facilities included a runway and taxiway, airplane service pits, airplane refueling/fuel storage systems, a hospital, vehicle maintenance and refueling /fuel storage areas, ordnance and ammunition magazines, a dope and paint shop, and a dope storehouse. (Dope is any thick liquid used as a lubricant, varnish, or thinner.) No other information is available regarding operational practices and/or waste handling and disposal practices during the early years of Fort Allen. Available records indicate that Fort Allen has not had any consent decrees executed, enforcement actions taken, or compliance notices issued pursuant to the Resource Conservation and Recovery Act (RCRA). Records also indicate that the Puerto Rico Environmental Quality Board (PREQB) conducted two RCRA inspections at the Fort Allen Processing Center (Building 225) under ID No. PRD980527071 in 1990. The PREQB found that the facility had been closed and no violations were noted. According to the EPA, no other RCRA compliance/enforcement activities have occurred at Fort Allen. Fort Allen is currently listed as a small quantity RCRA generator under ID No. PRD982275448 and does not have a permit to store waste for periods greater than 90 days. As of April 1993, the site was listed on the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) Special Reports List under ID No. PR6211843077. According to the regional EPA office in Puerto Rico, the Fort was added to this list because the site appears on the federal docket and required an SI and a revised HRS score. Additionally, the EPA reports that Fort Allen does not have any spills or releases recorded in the Emergency Response Notification System (ERNS) database.

Regulatory Status

- Docket Listing April 1993
- RCRA Small Quantity Generator
- Puerto Rico Environmental Quality Board RCRA Inspections (20 & 27 Jun 90)
- US Environmental Protection Agency National Pollutant Discharge Elimination System (NPDES) Compliance Report (Jun 92)
- Final, Preliminary Assessment Report, Fort Allen, Juana Diaz, Puerto Rico (Jan 94)

Cleanup Program Summary

- Final, Site Inspection, Phase I, Fort Allen, Juana Diaz, Puerto Rico (Jan 97)
- EPA Region II gave a No Further Remedial Action Planned (NFRAP) for all IRP sites at Fort Allen, in a letter dated 10 October 2002 and delisted in the Federal Register 12 December 2003.
- Hazard Ranking Score (HRS) 8.46, (Jan 98)

IRP

The IRP sites have been made Response Complete. EPA Region II sent a letter dated 10 October 2002 and they consider Fort Allen to be a NFRAP installation.

MMRP

- Prior Year Progress: No actions were taken in FY05. The Site Inspection (SI) was initiated in FY06.
- Future Plan of Action: The installation plans to complete all Site Investigations (SIs) by 2008 and execute follow on phases/actions as required in the individual site cleanup strategies.

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Military Munitions Response Program

MMRP Summary

Total Army Environmental Database-Restoration (AEDB-R) Sites/RC Sites: 2/0

AEDB-R Site Types

2 Small Arms Ranges

Most Widespread Contaminants of Concern: Metals, Explosives, Munitions and Explosives of Concern (MEC)

Media of Concern: Soil

Completed Removal (REM)/Interim Remedial Action (IRA)/Remedial Action (RA):
None

Total MMRP Funding

Prior years (up to FY05):	\$ 25,000
Current Year (FY06)	\$ 130,000
Future Requirements (FY07+): ...	\$1,716,000
Total:.....	\$1,871,000

Duration of MMRP:

Year of MMRP Inception: 2002

Year of MMRP RC: 2017

Year of MMRP Completion including Long Term Management (LTM): 2047

MMRP Contamination Assessment Overview

The Phase 3 Army Range Inventory was completed at Fort Allen in Dec 03. The inventory identified two sites as eligible for the MMRP, the Multi-Purpose Range and West Fort Allen (Small Arms Range). The Phase 3 Inventory serves as the Preliminary Assessment (PA) under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA). A Site Inspection was initiated in FY06.

MMRP Cleanup Exit Strategy

The installation plans to complete all SIs by 2008 and execute follow on phases/actions as required in the individual site cleanup strategies.

Previous Studies

2003

- US Army Closed, Transferring and Transferred Range/Site Inventory Report, Fort Allen, PR, US Army Corps of Engineers, April 2003

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Military Munitions Response Program Site Descriptions

FTAL-001-R-01

Multi-Purpose Range

SITE DESCRIPTION

This site was found to be eligible for the Formerly Used Defense Sites (FUDS) program. The site will be transferred to FUDS at an unknown date in the future. Fort Allen, Property Eligibility Report, November 2004.

The Multi-Purpose Range occupies approximately three acres, and is located on the east side of Route 149 between Fort Allen and Juana Diaz at the foot of Figueroa Hill. It was constructed in 1941 and consisted of a bomb storage area (250-500-pound bombs and larger) and a range area. The range area was separated into 2 training areas, which included a pistol/rifle range and a grenade court. The pistol/rifle range area consisted for 25 firing point with targets positioned at 25yds for pistol and 100yds for rifle training. The range was equipped with an earthen berm backstop (10ft high and 6ft thick) running along the back of the range. The grenade court consisted of a 3ft pit surrounded on three sides by a 6ft high/2ft thick concrete wall. Grenades were tossed over the wall into the pit and all duds were immediately detonated by Explosive Ordnance Demolition (EOD). Training was conducted at this Multi-Purpose Range from 1941-1945 (during WWII) and 1948-1953 (during the Korean War). The range was transferred out of Department of Defense (DoD) control in 1963. In approximately 1995, a housing development was constructed on this site.

STATUS

REGULATORY DRIVER: CERCLA

RAC Score: Serious Risk

CONTAMINANTS: Metals, Explosives, MEC

MEDIA OF CONCERN: Soil

Phases	Start	End
PA.....	200212	200305
SI	200601	200712
RI/FS	201110	201209
RA(C).....	201610	201709
LTM	201710	204709

RC DATE: 201709

CLEANUP STRATEGY

A site investigation will be completed that includes a limited soil sampling investigation to determine if further action is necessary. If needed, this will be followed by an extensive soil sampling investigation to further characterize the extent of the soil contamination. A remedial action may be necessary that may include UXO clearance, soil excavation and disposal, and land use controls with LTM.

FTAL-002-R-01

West Ft. Allen

SITE DESCRIPTION

West Fort Allen was used as a single-purpose small arms range; it was constructed in 1941 (operational 1941-1987) and consisted of approximately two acres. It was located in the eastern portion of the installation approximately 800 feet south east of the US Army Reserve Center. This site is undeveloped. There have been no UXO responses at this site.

CLEANUP STRATEGY

A Site Inspection investigation will be completed that includes a limited soil sampling investigation to determine if further action is necessary. If necessary, this will be followed by a soil sampling investigation to further characterize the extent of the soil contamination. A remedial action may be necessary that will include a limited soil removal action.

STATUS

REGULATORY DRIVER: CERCLA

RAC Score: Negligible Risk

CONTAMINANTS: Metals,
Explosives

MEDIA OF CONCERN: Soil

Phases	Start	End
PA.....	200212	200305
SI	200601	200712
RI/FS	201110	201209
RD	201510	201609
RA(C).....	201610	201709

RC DATE: 201709

Initiation of MMRP: 2002

Past Phase Completions Milestones

2003

- PA Completion

Projected ROD/DD Approval Dates: TBD

Projected Construction Completion: 2017

Schedule for Five Year Reviews: TBD

Estimated Completion Date of MMRP including LTM: 2047

FORT ALLEN MMRP SCHEDULE

(Based on current funding constraints)

AEDB-R#	PHASE	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15+
FTAL-001-R-01	RI/FS									
	RA(C)									201709
	LTM									204709
FTAL-002-R-01	RI/FS									
	RD									201609
	RA(C)									201709

MMRP Costs

Prior Years Funds

Year	Site Information	Expenditures	FY Total
FY 02	PA	\$25 K	\$25 K

Total Funding up to FY05: \$25 K

Current Year Requirements

Year	Site Information	Requirements	FY Total
FY 06	SI (projected)	\$130 K	\$130 K

Total Funding FY06: \$130 K

Total Future Requirements: \$1,716 K

Total Program Cost (from inception to completion of the MMRP): \$1,871 K

Community Involvement

There is no RAB, TRC or TAPP at Fort Allen.